

IN THE UNITED STATES PATENT & TRADEMARKS OFFICE

ART UNIT:

EXAMINER:

APPLICANT: Thomas W. Sederberg

SERIAL NO.:

FILED: March 26, 2004

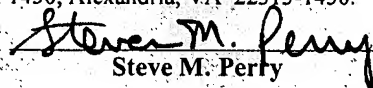
CONFRM. NO.:

FOR: SYSTEM AND METHOD FOR DEFINING T-
SPLINE AND T-NURCC SURFACES USING
LOCAL REFINEMENTS

CERTIFICATE OF MAILING
UNDER 37 C.F.R. § 1.10

EXPRESS MAIL LABEL NO. EV 389081567
US
DATE OF DEPOSIT: March 26, 2004

I hereby certify that this paper or fee (along with any paper or fee referred to as being attached or enclosed) is being deposited with the United States Postal Service Express Mail Post Office to Addressee service with sufficient postage on the date indicated above and is addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.


Steve M. Perry

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir/Madam:

Please find, pursuant to 37 C.F.R. § 1.98(a)(1), the enclosed Form PTO-1449 which contains a list of all patents, publications, or other items that have come to the attention of one or more of the individuals designated in 37 C.F.R. § 1.56(c). Applicant respectfully submits that this Information Disclosure Statement is filed pursuant to:

☒ 37 C.F.R. § 1.97 (b)(1) or (3), within three months of the filing date of the application, or before a first office action on the merits, whichever occurs last;

☐ 37 C.F.R. § 1.97 (c), after a first office action on the merits, but before a Final Office Action or a Notice of Allowance, whichever occurs first, and is accompanied by either 1) a statement in accordance with 37 C.F.R. § 1.97(e), or 2) the fee set forth in § 1.17(p); or

☐ 37 C.F.R. § 1.97 (d), after a Final Office Action or Notice of Allowance, whichever occurs first, but on or before payment of the issue fee, and is accompanied by both 1) a statement in accordance with 37 C.F.R. § 1.97(e), and 2) the fee set forth in § 1.17(p).

While no representation is made that any of these references may be "prior art" within the meaning of that term in accordance with 35 U.S.C. §§ 102 or 103, the enclosed list of references is disclosed so as to comply with the duty of disclosure set forth in 37 C.F.R. § 1.56.

Moreover, while no representation is made that a specific search of office files or patent office records has been conducted or that no better art exists, the undersigned attorney of record believes that the references listed, together with any other references which may have been previously submitted or listed, are the closest to the claimed invention (taken in its entirety) of which the undersigned is presently aware, and no art which is closer to the claimed invention (taken in its entirety) has been knowingly withheld.

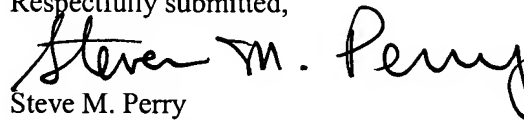
In accordance with 37 C.F.R. §§ 1.97 and 1.98, a copy of each listed reference (or relevant portion thereof) which was not previously submitted to, or cited by, the Patent Office is also enclosed.

For all listed references that are not either in the English language, or accompanied by a translation into English, a concise explanation of relevance as required under 37 C.F.R. § 1.98(a)(3) is enclosed attached to each.

The Commissioner is hereby authorized to charge any additional fees associated with this communication or to credit any overpayment to Deposit Account No. 20-0100.

Dated this 26th day of March, 2004.

Respectfully submitted,



Steve M. Perry
Attorney for Applicant
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INTELLECTUAL PROPERTY LAW

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March 26, 2004

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Re: U.S. Patent Application filed March 26, 2004
Applicant: Thomas W. Sederberg
Title: **SYSTEM AND METHOD FOR DEFINING T-SPLINE AND T-
NURCC SURFACES USING LOCAL REFINEMENTS**
Attorney Docket No. 22477

Sir/Madam:

Transmitted herewith for filing and pursuant to 37 C.F.R. §§ 1.56 and 1.97 is an
Information Disclosure Statement.

Enclosed also are the following designated documents, as required under 37 C.F.R. §§
1.97 and 1.98:

- ☒ Form PTO-1449 list of 5 references submitted for consideration.
- ☒ Legible copies of the listed references or their relevant portions.
- ☐ All English translations of each non-English reference, if any, within the
possession, custody, control or availability of anyone designated in 37 C.F.R. §
1.56(c) (see 37 C.F.R. § 1.98(c)).

The following are included within the Information Disclosure Statement if applicable and as required under 37 C.F.R. § 1.98:

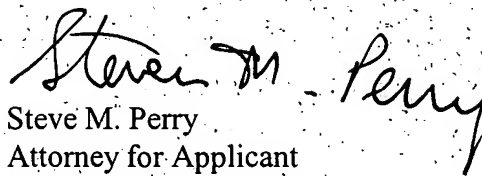
- ☐ Concise explanation of relevance of each reference not in English and unaccompanied by an English translation.
- ☐ Statement that certain listed references not enclosed are substantially cumulative of an enclosed reference.
- ☐ Statement that certain listed references not enclosed were previously cited by or submitted to the Office in prior application no. _____, filed on _____, which is relied upon for an earlier filing date under 35 U.S.C. § 120.

In order to secure consideration of the items designated above, one or more of the following, if required, is also enclosed:

- ☐ Statement under 37 C.F.R. § 1.97(e)(1) or (2).
- ☐ Check No. _____ in the amount of \$0.00 (amount in § 1.17(p)) constituting the submission fee set forth in 37 C.F.R. § 1.17(p).

In the event that 37 C.F.R. § 1.97(c) applies and the Examiner is not satisfied that the Statement meets the requirements of 37 C.F.R. § 1.97(e), or in any other event remediable by a fee, please credit any over payment or charge any additional fees to Deposit Account No. 20-0100 of the undersigned.

Respectfully submitted,



Steve M. Perry
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Registration No. 45,357

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Telephone: (801) 566-6633

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| PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | ATTY. DOCKET NO. 22477 | SERIAL NO. _____ |
| LIST OF PRIOR ART CITED BY APPLICANT | APPLICANT Thomas W. Sederberg | |
| | FILING DATE March 26, 2004 | GROUP _____ |

U.S. PATENT DOCUMENTS

| EXAMINER INITIALS | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
|----------------------|-----|--------------------|------------|---------------|-------|----------|-------------------------------|
| | A1 | 6,037,949 | 03/14/2000 | DeRose et al. | | | |
| | A2 | 6,222,553 | 04/24/2001 | DeRose et al. | | | |
| | A3 | | | | | | |
| | A4 | | | | | | |
| | A5 | | | | | | |
| | A6 | | | | | | |
| | A7 | | | | | | |
| | A8 | | | | | | |
| | A9 | | | | | | |
| | A10 | | | | | | |
| | A11 | | | | | | |
| | A12 | | | | | | |

FOREIGN PATENT DOCUMENTS

| EXAMINER INITIALS | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUBCLASS | TRANSLATION YES NO |
|----------------------|-----|--------------------|------|---------|-------|----------|-----------------------|
| | A13 | | | | | | |
| | A14 | | | | | | |
| | A15 | | | | | | |
| | A16 | | | | | | |
| | A17 | | | | | | |

OTHER PRIOR ART (Including Author, Title, Pertinent Pages, Etc.)

| | | |
|----------|-----|--|
| | A18 | Thomas W. Sederberg et al., "Non-Uniform Recursive Subdivision Surfaces" |
| | A19 | Almaz Bakenov, "T-Splines: Tensor Product B-Spline Surfaces with T-Juncions", Department of Computer Science, Brigham Young University, August 2001 |
| | A20 | David R. Forsey et al., "Hierarchical B-Spline Refinement", Computer Graphics Laboratory, Department of Computer Science, University of Waterloo, Waterloo, Ontario, Canada N2L 3G1, Computer Graphics, Vol. 22, Number 4, August 1988 |
| EXAMINER | | DATE CONSIDERED |

***EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication with applicant.